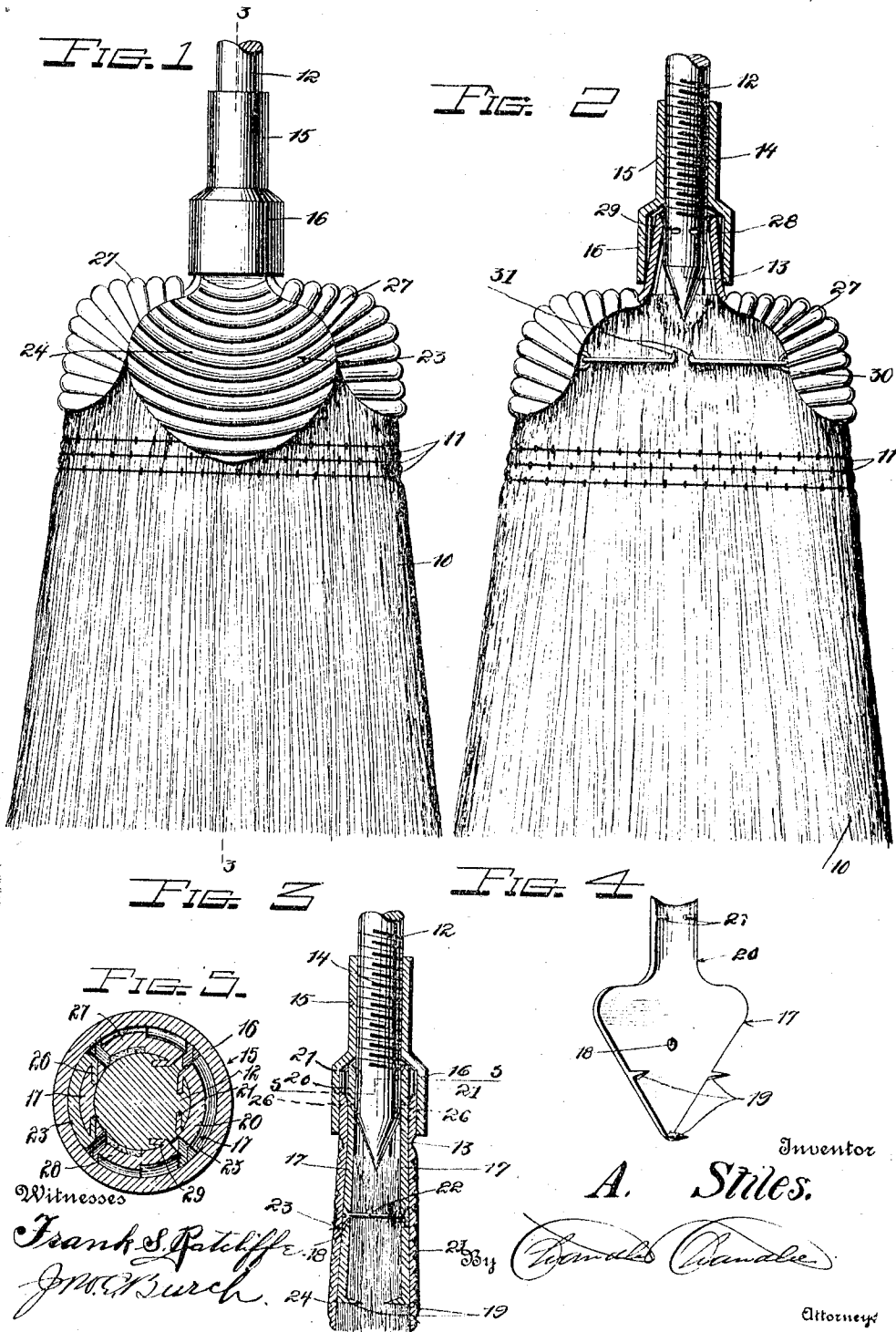


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BROOM HOLDER.
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BROOM-HOLDER.

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To all whom it may concern:

Be it known that I, ARCHIBALD STILES, a citizen of the United States, residing at Obar, in the county of Quay, State of New Mexico, have invented certain new and useful Improvements in Broom-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improved removable broom holder and attaching means therefor and the primary object of the invention is to construct a holder which may be economically manufactured and which will serve for use on broom heads so that the head of the broom may be renewed and attached to the holder in the place of a worn out head.

Another object of the invention is to provide a novel form of clamping means carried by the handle and adapted for securely connecting a broom head thereto.

With the above and other objects in view, the invention consists of certain other combinations and arrangements of parts as will be hereinafter more fully described and claimed, it being a still further object of the invention to provide a device which will not be likely to get out of working order.

In the drawings:—Figure 1 is a side elevation of a broom head and handle secured by my improved means. Fig. 2 is a side elevation of the broom with two of the side plates removed and the clamping parts in section. Fig. 3 is a vertical sectional view of the device on the line 3—3 of Fig. 1. Fig. 4 is a detailed perspective view of one of the clamping members adapted to engage one side of the broom.

Referring to the drawings in detail, there is shown a broom head 10 of ordinary construction and which is preferably constructed of broom corn which is securely connected transversely of the broom head as shown at 11 by sewing or otherwise and in order to removably attach the head to a handle so that the head of the broom may be renewed, I provide a handle 12 preferably of wood which has its lower end terminating in a conical point 13 and the handle is exteriorly threaded above the conical point 13 as shown at 14, said threads being adapted to be engaged by an interiorly

threaded sleeve 15 forming a clamping member and which has a cup-shaped enlargement 16 at its lower end for moving a pair of side clamping plates 17 into binding engagement with the broom head 10 for securely connecting the handle thereto. Each of the plates 17 of which two are provided is formed with an opening 18, said plates being of triangular form in general outline and provided with a series of inwardly projecting teeth 19 adapted to extend into the broom head and each of said plates is further formed with a reduced neck portion 20 which are pivotally connected around the lower end of the handle 12 directly above the pointed conical portion 13 as shown at 21, the conical portion permitting the handle to penetrate the broom head. A clamping bolt 22 is disposed through the broom head and engages through the central portions of each of the plates 17 so as to tightly clamp the same together and in order to impart initial movement to the plates or to hold the same in such position, the sleeve 15 is screwed downwardly on the handle so that the enlarged portion 16 will engage over the upwardly directed neck portions 20 of the plates and tightly draw the same together and prevent displacement thereof while the sleeve also serves as a reinforcement for the lower end of the handle.

Cover plates 23 are disposed over the plates 17 and are preferably provided with surrounding scalloped edges 24 as shown to form a further gripping surface, the neck portions 25 of the cover plates being hinged to the neck portions 20 of the plates 17 as shown at 26 and adapted to be engaged by the enlarged portion 16 of the sleeve 15 simultaneously with the engagement thereof with the neck portions 20 so as to tightly clamp the broom head in position.

Angular cup-shaped edge plates 27 are provided with neck portions 28 which are hinged or pivotally connected to a handle as shown at 29 and each of said edge plates has a pair of hooks 30 pivoted intermediate the side edges thereof. The hooked extremities 31 of the hook 30 are projected into the broom head or splints thereof and the side clamping plates 17 engage thereover to more securely hold said plates 27 in position. It will also be observed that the hooks 31 are extended inwardly at a common direction or plane thereby exerting opposite pull

to insure retention of the broom head in proper shape without depriving the same of its flexibility.

From the foregoing description in connection with the accompanying drawings, it will be seen that I have provided an improved form of broom holder and attaching means which comprises a few simple parts and which permits the detachment of the broom head when the same is worn out so that the head may be renewed without renewing the handle, at a cheaper cost. It is also apparent inasmuch as the broom head is not constructed with a stem and wire winding for securing the head to the handle that the weight of the broom is not materially increased.

I claim:—

1. The combination with a handle and a broom head at one end thereof; of attaching means therefor, said handle having a threaded portion and a conical tapered portion therebeneath, a sleeve threaded on the handle and having an enlarged lower end, broom

engaging plates hinged to the handle above the tapered portion and having inwardly projecting teeth to engage the sides of the broom, a clamping bolt for drawing said plates together, cover plates for the first named plates and hinged thereto, edge plates for the broom and hooks carried by the edge plates and adapted to be projected into the side portions of a broom head beneath the aforesaid plates.

2. The combination with a handle and a broom head at one end thereof; of edge plates connected to the handle, means carried by the edge plates for engaging in the sides of the head to draw said plates together, toothed side clamping plates connected to the handle and means carried by the handle to draw said plates inwardly.

In testimony whereof, I affix my signature, in presence of two witnesses.

ARCHIBALD STILES.

Witnesses:

T. A. BEATTY,
JOHN E. HUGHES.